

AMENDMENTS TO THE CLAIMS

Please amend the Claims as follows:

1. (Currently Amended) A miniaturized circuit housing to encapsulate and provide external contacts for at least one integrated circuit having circuit contacts, the circuit housing comprising:

a housing floor comprising a lower surface which includes housing contact elements for making external contact and an upper surface with contact surfaces arranged to correspond to the circuit contacts and the housing floor being configured to receive at least one integrated circuit; and

a housing lid permanently attached to the housing floor so as to define the housing and the housing lid comprising at least one spring element fixedly attached to a lower surface of the housing lid such that, when at least one integrated circuit is positioned within the housing, the at least one spring element bears substantially directly on the at least one integrated circuit so as to press the at least one integrated circuit ~~is pressed~~ resiliently against the upper surface of the housing floor with no permanent connection between the contact surfaces of the housing and the at least one integrated circuit.

2. (Cancelled)

3. (Cancelled)

4. (Withdrawn) The circuit housing of Claim 2, wherein the at least one spring element is loosely inserted between the housing lid and circuit.

5. (Withdrawn) The circuit housing of Claim 1, wherein the housing lid is flexible.

6. (Previously Presented) The circuit housing of Claim 1, further comprising a wall that substantially rigidly connects the floor and the lid of the housing to one another at their circumference so as to define an interior of the housing and tightly seals off the interior of the housing when the housing floor and lid are attached.

7. (Previously Presented) The circuit housing of Claim 6, wherein the wall is formed as part of the housing floor or the housing lid and wherein the wall is sealable via a butt joint to the respective housing lid or housing floor in a gas-tight manner.

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8. (Previously Presented) The circuit housing of Claim 7, wherein the seal is formed by an external plastic encapsulation of at least the butt joint between the housing lid or housing floor and the wall.

9. (Previously Presented) The circuit housing of Claim 6, wherein the interior of the housing is filled with an inert gas when sealed.

10. (Previously Presented) The circuit housing of Claim 1, wherein the housing has a flat four-cornered shape, with a substantially level and rectangular housing floor and housing lid.

11. (Previously Presented) The circuit housing of Claim 6, wherein the lid of the housing is rigidly constructed and joined to the wall

12. (Withdrawn) The circuit housing of Claim 1, wherein the lid of the housing is constructed as a heat sink comprising area-increasing structures in order to cool the circuit.

13. (Withdrawn) The circuit housing of Claim 2, wherein the ductility and shapes of the housing lid and the at least one spring element is selected such that the pressing force exerted by the housing lid and the at least one spring element between the circuit and the housing floor is such as to maintain electrical contact between the circuit contact elements and the housing floor.

14. (Previously Presented) The circuit housing of Claim 1, wherein the housing contact elements are at least partially spherical.

15. (Withdrawn) The circuit housing of Claim 1, wherein the housing contact elements are constructed substantially as contact pins or flat contact surfaces.

16. (Withdrawn) The circuit housing of Claim 1, wherein the housing floor is constructed as at least a section of a circuit board.

17. (Previously Presented) The circuit housing of Claim 1, wherein the contact surfaces are configured as flat elevations so as to make internal contact with the circuit contact.

18. (Previously Presented) The circuit housing of Claim 17, wherein the contact surfaces comprise gold and are formed by the stamping of bumps.

19. (Cancelled)

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20. (Withdrawn) The circuit housing of Claim 6, further comprising a rigid covering wherein the rigid covering shields the lid of the housing such that externally applied forces are inhibited from being transmitted to the circuit.

21. (Currently Amended) An electronic circuit housing assembly comprising:
a circuit chip having chip contacts;

a housing floor comprising a plurality of outer contacts disposed on a lower surface of the housing floor so as to provide external contact and which are in electrical contact with a corresponding plurality of inner contacts arranged to correspond to the chip contacts; and

a housing lid comprising one or more resilient elements and permanently attachable to the housing floor so as to define a housing wherein positioning of the chip within the housing and attachment of the housing lid to the housing floor induces the one or more resilient elements to bear substantially directly on the circuit chip so as to induce an elastic pressure on the chip so as to create solely a compression contact between the chip contacts and the inner contacts.

22. (Withdrawn) The circuit housing of Claim 21, wherein the elastic pressure arises from an elastic deformation of the housing lid upon attachment of the housing lid and the housing floor with the chip interposed therebetween.

23. (Previously Presented) The circuit housing of Claim 21, further comprising at least one elastic element interposed between the housing lid and the chip.

24. (Previously Presented) The circuit housing of Claim 23, wherein the at least one elastic element comprises a spring.

25. (Withdrawn) The circuit housing of Claim 23, wherein the at least one elastic element comprises an elastomeric bulk material.

26. (Previously Presented) The circuit housing of Claim 23, wherein the at least one elastic element is fixedly attached to the housing lid or the chip.

27. (Previously Presented) The circuit housing of Claim 23, wherein the at least one elastic element is held in compression between the housing lid and the chip by the attachment of the housing lid to the housing floor.

28. (Previously Presented) The circuit housing of Claim 21, wherein at least one of the outer contacts and the chip contacts comprise gold.

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SUMMARY OF INTERVIEW

Exhibits and/or Demonstrations

None

Identification of Claims Discussed

Claim 1

Identification of Prior Art Discussed

Kucharek US 4,748,495

Proposed Amendments

A proposed amendment to Claim 1 and similarly to independent Claim 21 to include the limitation that the at least one spring element bears substantially directly on the at least one integrated circuit so as to be pressed resiliently against the housing and contacts therein.

Principal Arguments and Other Matters

It was discussed how the proposed amendment would overcome the anticipation and obviousness rejections over Kucharek US 4,748,495.

Results of Interview

It is agreed that this limitation would overcome the art of record.